UNCLASSIFIED

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Hurricane 2004-2005 SAD Perspective

USACE/FEMA 2005/2006 Hurricane Season Critique and Planning Workshop
March 07– March 09 2006
Arlington, TX

South Atlantic Division
U.S. Army Corps of Engineers
Atlanta, Georgia

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South Atlantic Division

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Hurricanes 2004-2005

Hurricane Charley – Florida

Hurricane Frances – Florida

Hurricane Ivan – Alabama, Florida

Tropical Storm Jeanne- Puerto Rico

Hurricane Jeanne – FL/GA/SC/NC

Hurricane Dennis – FL/AL

Hurricane Katrina – FL/AL

Hurricane Ophelia – Fl/SC/NC

Hurricane Rita -- Florida

Hurricane Wilma -- Florida

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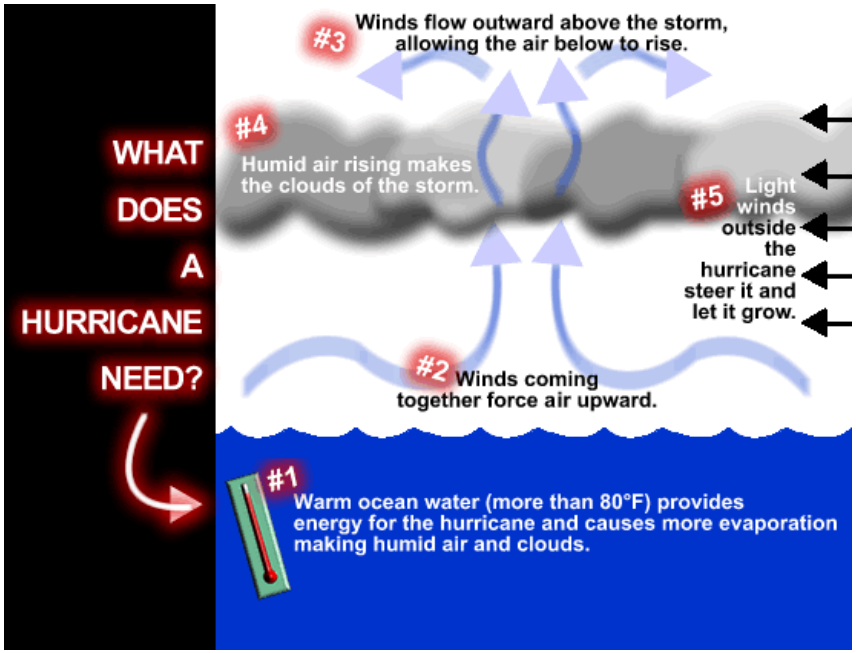
9 Hurricanes

- **Different Locales**
- **Different Strengths**
- **Different Personalities**
- **But…**

THE ISSUES ARE THE SAME!


WHAT DOES A HURRICANE NEED?
#3 Winds flow outward above the storm, allowing the air below to rise.
#4 Humid air rising makes the clouds of the storm.
#5 Light winds outside the hurricane steer it and let it grow.
#2 Winds coming together force air upward.
#1 Warm ocean water (more than 80°F) provides energy for the hurricane and causes more evaporation making humid air and clouds.

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List of Issues

- **Command and Control**
- **Standard Reports and Battle Rhythm– Essential Elements of Information (EEI) for all Mission Areas**
- **$ amount for ACI Contract for Housing and Roofing**
- **Common Operating Picture**
- **Wholesale vs. Retail Commodity Missions**
- **Quality of Plastic Sheeting for Blue Roof Missions**
- **Contracting with Large Businesses versus Small Businesses**
- **Training for PRT Personnel**
- **ROEs for Immobile Victims**
- **Authority over FEMA Contractors**
- **Identification of Temporary Housing Sites**
- **Long Term Sustainability of Housing Mission**
- **Quality of FEMA Temporary Housing Units**
- **Location for Storage of Commodities**
- **Quality Control for Bottled Water**
- **In Transit Visibility of Assets**
- **Pre-positioning of Commodities**
- **Structures that Qualify for Temporary Roofs, e.g. metal roofs**
- **Prioritization of Requirements for Generators**
- **Use of Tarps in Lieu of Plastic**
- **Etc.**
- **Etc.**
- **Etc.**

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What to Work on

- Standardizatio
- Automatio
- Personnel

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STANDARDIZATION

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- ACIs
- PRTs
- SOPs
- ESF#3 Handbook
- Reports
- Expectations

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STANDARDIZATION

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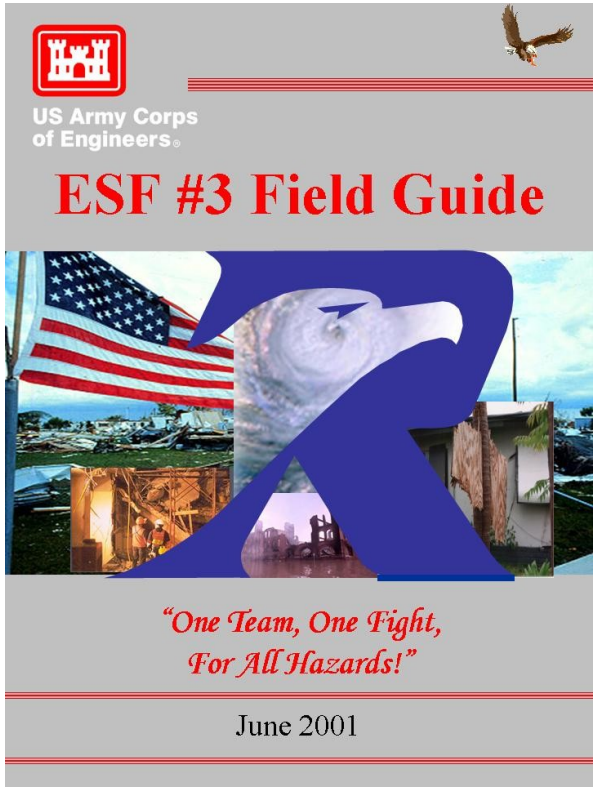
ESF #3 Field Guide

- Great Handbook
- Need rewrite
  - NRP versus FRP
  - Multi District/Multi Division Approach
  - New Timelines
  - New Rates of Production
  - Include (FEMA) Decision Points



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STANDARDIZATION

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Reporting

- Decide now what data is required
- Educate leadership
- Need automated Roll-up
- Determine who (FEMA, PRT, Log Community, etc.) is responsible to get which data and the “as-of” time

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STANDARDIZATION

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Expectations

- Lead times (72 hours on ice/water)
- Productions rates (20,000 roofs/1st 30 days)
- Decision Points (logistics funded H-84)
- Decision Maker
- Decision Support Products (USACE Models, PODs, local official)

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AUTOMATION

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Good timely coordinated decisions require a Common Operating Picture (COP). Automation has untapped capabilities.

- **ENGLINK**
- **P2**
- **GIS**
- **GPS**
- **Modeling**
- **Automated data distribution (NIMS-ICS-HSIN-DMIS)**

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AUTOMATION

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ENGLink INTERACTIVE

- **Very Useful (Reporting, ACIs, PRTs, Medical Screening, Shoe Size)**
- **Not user friendly**
- **No report automation (roll-ups)**
- **Deployment information**
- **Must be used by all**

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AUTOMATION

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GPS

- Able to pinpoint locations
- Can track numerous commodities
- Requires upfront commitment, resources, and training

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AUTOMATION

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Data Distribution (NIMS-ICS-HSIN-DMIS)

- Good data needs distribution
- Large files require large bandwidth
- Need to solve firewall concerns
- Provide both data push and data pull
- It must all work together

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PERSONNEL

KEY TO SUCCESS

- **On the ground personnel**
  - **Initiating deployments**
  - **RSOI**
  - **Billeting**
  - **Pay concerns (Pay Cap, AEA, etc)**

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PERSONNEL

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Initiating Deployments

- **Timely initiation (H-72) of standard sequence (EFS#3, Log personnel for RSOI and for Ice/Water, Advance party, etc)**
- **Personnel prepared and processed rapidly (medical screening/shots)**
- **Complete ENGLINK datasheets required**

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PERSONNEL

RSOI

- SOP
- Shot and Medical
- Training

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PERSONNEL

BILLETING

- **Adequate billeting space ASAP!!!**
- **Near where needed**

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Summary

Each Hurricane is different, but the missions are the same.

We need to focus on

- **STANDARDIZATION**
- **AUTOMATION**
- **PERSONNEL ISSUES**

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QUESTIONS ?

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ATM
K S T O R E
Plywood to protect your store from Hurricane Rita.....$200
Supplies to hang the plywood.....$50
Using your Aggie education to hang the plywood on the wrong side of the windows.....PRICELESS!!!!